Appl. No. 09/708,923 Reply to Office Action of Dec. 23, 2003 Docket No. TRNSV-001C

The following listing of claims will replace all prior versions, and listings, of claims in this application:

## Listing of Claims:

Claim 1 (Previously and Currently Amended): A method for revascularization, said method comprising the steps of:

- a) choosing a first location on a blood vessel that has a lumen containing blood having a pO<sub>2</sub> of at least 50; and
- b) forming an extravascular a passageway that extends outside of said lumen and between said first location and a second location on a blood vessel, such that said blood will flow through said extravascular passageway, said passageway being formed by i ) providing a passageway-forming catheter device that comprises an elongate flexible catheter body having a tissue-penetrating element passable therefrom; ii) inserting said catheter body into the vasculature and positioning said catheter body such that the tissue-penetrating element is located adjacent the location at which said passageway is to be formed; and iii) passing said tissue-penetrating element from said catheter body so as to form said passageway such that blood will flow from the first location through the passageway and to the second location.

Claim 2 (Previously Amended): The method of Claim 1 wherein said first location and said second location are in the heart.

Claim 3 (Original): The method of Claim 1 wherein said first location and said second location are on the same blood vessel.

Claim 4 (Original): The method of Claim 1 wherein said first location and said second location are

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on different blood vessels.

Claim 5 (Previously amended): The method of Claim 4 wherein said blood vessels are an artery and a vein.

Claim 6 (Original): The method of Claim 4 wherein said blood vessels are a vein and a vein.

Claim 7 (Original): The method of Claim 4 wherein said blood vessels are an artery and an artery.

Claim 8 (Previously and Currently Amended): The method of Claim 1 [[4]] wherein step b comprises forming a plurality of said extravascular passageways between said blood vessels.

Claim 9 (Previously Amended): The method of Claim1 wherein step a comprises choosing a location upstream of an obstructed, injured or diseased segment of a blood vessel, and wherein said second location is downstream of the obstructed, injured or diseased segment, such that the blood bypasses the segment.

Claim 10 (Original): The method of Claim I wherein said first location is on an artery and said second location is on a vein, such that blood will flow from said artery, through said extravascular passageway, and into said vein.

Claim 11 (Previously Amended): The method of Claim 10 further comprising a step c) of causing the blood which has entered the vein through said extravascular passageway to flow in a retrograde direction through said vein so as to retroperfuse tissue through the venous vasculature.

Claim 12 (Previously Amended): The method of Claim 11 wherein step c comprises blocking said vein at a location adjacent said extravascular passageway.

Claim 13 (Original): The method of Claim1 wherein the extravascular passageway formed in step b is a primary extravascular passageway formed between a first blood vessel and a second blood vessel

such that said blood will flow from the first blood vessel, through said extravascular passageway, and into the second blood vessel.

Claim 14 (Amended): The method of Claim 13 wherein said method further comprises the step of:

c) forming at least one secondary extravescular passageway between said second blood vessel and another blood vessel of the heart such that blood which has entered the second blood vessel through the first extravescular passageway will subsequently flow into another blood vessel through said secondary extravascular passageway.

Claim 15 (Amended): The method of Claim 14 wherein said blood is caused to flow into the other blood vessel through the secondary extravescular passageway by:

d) blocking the second blood vessel at a location adjacent the second extravascular passageway to cause said blood to flow from said second blood vessel through said second extravascular passageway and back into said other blood vessel.

Claim 16 (Previously and Currently Amended): The method of Claim 1 wherein at least one of said first and second locations is on a blood vessel which is part of a system of blood vessels wherein an obstructed, injured or diseased segment of a blood vessel is present, and wherein step b comprises forming the extravascular passageway so as to deliver the blood to a region that has been deprived of blood because of the obstructed, injured, or diseased segment.

Claim 17 (Cancelled)

Claim 18 (Amended): The method of Claim 17 1 wherein part istep i of Step b further comprises: providing and using an orientation means for locating said first and second locations and for orienting the catheter device such that the tissue-penetrating element of the catheter will pass from said first location to said second location, thereby forming said extravascular passageway between said first location on a blood vessel and said second location on a blood vessel.

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Claim 19 (Amended): The method of Claim 17-1 wherein the tissue penetrating element of the device provided in part i of step b [[i]] further incorporates a lumen through which a guide wire may be passed upon creation of said extravascular passageway by said tissue-penetrating element, and wherein said method further comprises the step of:

passing a guide wire through said lumen and allowing said guide wire to remain extended through said extravascular passageway following extraction and removal of said catheter, to thereby provide for subsequent advancement of one or more other apparatus through said passageway, over said guide wire.

Claims 20-59 (Previously withdrawn)